

In the Claims

Please amend the claims presented during the international phase as follows.

Applicant presents a full set of claims showing markups of the claims with insertions and deletions indicated by underlining and strikethrough text (or double bracketing), respectively.

1. (Original) A composition which comprises an ingredient which is adversely affected by UV light in the presence of TiO₂ and/or ZnO, and TiO₂ and/or ZnO which has been doped with another element and/or reduced ZnO.
2. (Original) A composition according to claim 1 which contains TiO₂ and/or ZnO which has not been doped or reduced.
3. (Currently amended) A composition according to claim 1 ~~or 2~~ wherein the dopant is manganese, vanadium, chromium or iron.
4. (Original) A composition according to claim 3 wherein the dopant is Mn³⁺.
5. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ wherein the dopant is present in an amount from 0.05% to 10 mole %.
6. (Original) A composition according to claim 5 wherein the dopant is present in an amount from 0.5 to 2 mole % by weight.
7. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ which comprises doped titanium dioxide.
8. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ wherein the titanium dioxide is in rutile form.
9. (Currently amended) A composition according to [[of]] claim 1 [[or 2]] which comprises reduced zinc oxide.

10. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ wherein doped and/or undoped TiO₂ and/or ZnO therein is coated with an inorganic or organic coating.

11. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ which comprises 0.5 to 20 mole % by weight of the doped TiO₂ or ZnO or reduced ZnO.

12. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ wherein the doped or reduced oxide has a particle size from 1 to 200 nm.

13. (Currently amended) A composition according to claim 1 ~~any one of claims 1 to 11~~ wherein the doped or reduced oxide has a particle size from 100 to 500 nm.

14. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ which is a UV sunscreen composition.

15. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ which is suitable for cosmetic use.

16. (Currently amended) A composition according to claim 14 [[or 15]] having a rate of loss of UV absorption at least 5% less than that of a composition having the same formulation except that it does not contain the said TiO₂ and/or ZnO which has been doped with another element or the said reduced zinc oxide.

17. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ which contains a UV sunscreen agent which is adversely affected by TiO₂ and/or ZnO.

18. (Currently amended) A composition according to claim 14 ~~any one of claims 14 to 17~~ wherein the UV sunscreen composition includes an organic sunscreen agent that is a paraaminobenzoic acid, ester or derivative thereof, a methoxy cinnamate ester, a benzophenone, a dibenzylomethane, an alkyl-β,β-phenyl acrylate, a triazine, a camphor derivative, an organic pigment, a silicone based sunscreen agent or 2-phenylbenzimidazoyl-5 sulphonic acid or phenyldibenzimidazoyl sulphonic acid.

19. (Currently amended) A composition according to claim 16 ~~any one of claims 16 to 18~~ wherein the rate of change of the ratio of the loss of UVA absorption to the loss of UVB absorption is less than that of a composition of the same formulation except that the TiO₂ and/or ZnO present is not doped.

20. (Original) A composition according to claim 19 wherein the rate of change of the ratio is greater because the rate of loss of UVA absorption is reduced.

21. (Currently amended) A composition according to claim 14 ~~any one of claims 14 to 20~~ which comprises 0.1% to 20% by weight of organic sunscreen agent(s).

22. (Currently amended) A composition according to claim 14 ~~any one of claims 14 to 21~~ which contains one or more of a fatty substance, organic solvent, silicone, thickener, demulcent, UVB sunscreen agent, antifoaming agent, moisturising agent, perfume preservative, surface activation filler, sequestrant, anionic, cationic, nonionic or amphoteric polymer, propellant, alkalisng or acidifying agent, colorant, metal oxide pigment, vitamin, antioxidant, anti-ageing factor and stabilizer.

23. (Currently amended) A composition according to claim 14 ~~any one of claims 14 to 22~~ which is a sunscreen.

24. (Currently amended) A composition according to claim 14 ~~any one of claims 14 to 23~~ which is in the form of a lotion, gel, dispersion, cream, milk, powder or solid stick.

25. (Currently amended) A composition according to claim 23 [[or 24]] which comprises a water-dispersible and an oil-dispersible TiO₂ and/or ZnO.

26. (Currently amended) A composition according to claim 1 ~~any one of claims 1 to 13~~ which is a polymeric composition.

27. (Original) A composition according to claim 26 wherein the ingredient which is adversely affected by TiO₂ and/or ZnO suffers a change in physical properties.

28. (Currently amended) A composition according to claim [[26 or]] 27 wherein the physical property is tensile strength.

29. (Currently amended) A composition according to of claim [[26 to]] 27 wherein the physical property is colour.

30. (Currently amended) A composition according to claim 26 ~~any one of claims 26 to 29~~ wherein the polymeric composition material is thermoplastic.

31. (Currently amended) A composition according to claim 26 ~~any one of claims 26 to 29~~ wherein the polymeric composition material is thermosetting.

32. (Currently amended) A composition according to claim 26 ~~any one of claims 26 to 31~~ which is in the form of a three dimensional article.

33. (Currently amended) A composition according to claim 26 ~~any one of claims 26 to 31~~ which is in the form of a film.

34. (Original) A composition according to claim 33 which is in the form of a photographic film.

35. (Currently amended) A composition according to claim 26 ~~any one of claims 26 to 31~~ which is in the form of a coating composition.

36. (Original) A composition according to claim 35 which is in the form of a paint or varnish.

37. (Currently amended) A composition according to claim 1 ~~any one of the preceding claims~~ wherein the ingredient which is adversely affected by TiO₂ and/or ZnO is an ethylenically unsaturated compound or one possessing a labile hydrogen atom.

38. (Canceled)

39. (Currently amended) A method Use of a doped or reduced TiO₂/ZnO as defined in any one of claims 1 to 6 and 10 to reduce the concentration of one or more organic UV sunscreen agents adversely affected by TiO₂ and/or ZnO in a cosmetic UV screening composition, comprising incorporating into the composition a doped or reduced TiO₂/ZnO as defined in claim 1.

40. (Currently amended) A method Use of a doped or reduced TiO₂/ZnO as defined in any one of claims 1 to 6 and 10 to reduce the rate of loss in UV absorption of a sunscreen composition containing an organic UV sunscreen agent which is adversely affected by TiO₂ and/or ZnO, comprising incorporating into the composition a doped or reduced TiO₂/ZnO as defined in claim 1.

41. (Currently amended) A method of increasing the effectiveness of an organic UV sunscreen sunereen composition which comprises one or more components which are degraded by TiO₂ and/or ZnO which comprises incorporating into the composition a doped or reduced TiO₂/ZnO as defined in claim 1 any one of claims 1 to 6 and 10.

42. (Currently amended) A method of increasing the UV spectrum of a sunscreen formulation which comprises an organic sunscreen agent which is adversely affected by TiO₂ and/or ZnO which comprises incorporating in the formulation doped TiO₂ and/or doped or reduced ZnO as defined in claim 1 any one of claims 1 to 6 and 10.

43. (Currently amended) A method of reducing the production of a toxic compound in a UV sunscreen sunereen composition which contains an ingredient which produces a toxic compound due to the presence of TiO₂ and/or ZnO which comprises incorporating therein doped TiO₂ and/or doped or reduced ZnO as defined in claim 1 any one of claims 1 and 4 to 7.

44. (Currently amended) A method of reducing the adverse effects of TiO₂ and/or ZnO on one or more components of a composition which comprises incorporating in the composition a doped or reduced TiO₂/ZnO as defined in claim 1 any one of claims 1 to 6 and 10.